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W8U52FOREST PRODUCTS LABORATORYLIST OF PUBLICATIONSRELATING TOWOOD FINISHING SUBJECTSU. S. DEPT. OF AGRICULTURE
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CURRENT SERIAL RECORDS

This list includes recent publications that give general information and the results of research by the Forest Products Laboratory of interest to persons wishing to finish wood structures, furniture, and other wood products.

Trade journals containing articles herein listed may be purchased from the publishers or consulted in various libraries.

Single copies of the various items may be obtained free upon request from the Director, Forest Products Laboratory, P.O. Box 5130, Madison, Wis. 53705. Classroom quantities are not available because of limited printing and storage facilities.

General

Title	Author	Publication and date
*Wood-frame house construction	Anderson, L.O.	U.S. Forest Serv. Ag. Hdbk. No. 73. 1970. From Govt. Printing Office, Wash., D.C. 20402. \$2.25.
Low-cost wood homes for rural America-Construction manual		U.S. Forest Serv. Ag. Hdbk. No. 364. 1969.
Painting outside wood surfaces	Forest Products Laboratory	U.S. Forest Serv. Res. Note FPL-0123. 1966.
*Steps before painting	Barquest, G.D., & Black, J.M.	Hoard's Dairyman 111(13): 804. July 10, 1966.

*Not available at Forest Products Laboratory.

LIST OF PUBLICATIONS RELATING TO WOOD FINISHING SUBJECTS (continued)

General (continued)

Title	Author	Publication and date
*Your best paint buys.	Barquest, G. D., & Black, J. M.	Hoard's Dairyman 111(12): 755. June 25, 1966.
Painting the outside.	Miniutti, V. P.	Yearbook Separate No. 3336. Yearbook of Agri- culture 1965.
Wood siding, how to install it, paint it, care for it.		U.S. Dept. Agr. Home and Garden Bull. No. 52. 1956.
Painting and finishing wood.	Forest Products Laboratory	Separate from Wood Hand- book. USDA Agr. Hdbk. 72. 1955. From Govt. Printing Office, Wash., D.C., 20402. \$2.25.
*Paints and painting. (Chapter 7 from Manual on Wood Con- struction for Prefabricated Houses)	Forest Products Laboratory & Hous- ing & Home Finance Agency	Govt. Printing Office, Wash., D.C., 20402. \$1.50.

The Weathering of Wood

Reflected-light and scanning electron microscopy of ultra- violet irradiated redwood sur- faces.	Miniutti, V. P.	The Microscope, Vol. 18, First Quarter, p. 61-72, 1970. Or Proceedings of the Engis International Stereo-scan Colloquium, Engis Equipment Co., Morton Grove, Ill. 60053. 1969.
Microscale effects of ultraviolet irradiation and weathering on redwood surfaces and clear coatings.	Miniutti, V. P.	J. of Paint Tech. 41(531): 275-84, Apr. 1969.

*Not available at Forest Products Laboratory.

71-009

LIST OF PUBLICATIONS RELATING TO WOOD FINISHING SUBJECTS (continued)

The Weathering of Wood (continued)

Title	Author	Publication and date
Microscopic observations of ultraviolet irradiated and weathered softwood surfaces and clear coatings.	Miniutti, V. P.	U.S. Forest Serv. Res. Paper FPL 74. 1967.
Application of reflected-light and fluorescence microscopy in studies of the degradation of uncoated and coated wood surfaces.	Miniutti, V. P.	The Microscope Vol. 15, Third Quarter, p. 4-16. 1967.
*Effect of atmospheric gases on color changes in wood exposed to ultraviolet light.	Wengert, E. M.	J. of Paint Tech. 38(493): 71-76. Feb. 1966.
Light induced free radicals in wood.	Kalnins, M. A., Steelink, C., & Tarkow, H.	U.S. Forest Serv. Res. Paper FPL 58. 1966.
Parameters for predicting maximum surface temperatures of wood in exterior exposures.	Wengert, E. M.	U.S. Forest Serv. Res. Paper FPL 62. 1966.
Surface characteristics of wood as they affect durability of finishes.		U.S. Forest Serv. Res. Paper FPL 57. 1966.
Pt. II--Photochemical degradation of wood.	Kalnins, M. A.	
Weathering of wood.	Forest Products Laboratory	U.S. Forest Serv. Res. Note FPL-0135. 1966.
*Microscale changes in cell structure of softwood surfaces:	Miniutti, V. P.	J. of Paint Tech. & Eng. 37(485): 692-6. June 1965.
Microscale changes in cell structure at softwood surfaces during weathering, preliminary observations.	Miniutti, V. P.	Forest Prod. J. 14(12): 571-576. Dec. 1964.

*Not available at Forest Products Laboratory.

LIST OF PUBLICATIONS RELATING TO WOOD FINISHING SUBJECTS (continued)

The Weathering of Wood (continued)

Title	Author	Publication and date
Wood siding left to weather naturally.	Browne, F. L.	South. Lbrman., pp. 141-143. Dec. 1960.
Effect of resin treatment and compression upon the weathering properties of veneer laminates.	Lloyd, R. A., & Stamm, A. J.	Forest Prod. J. 8(8): 230-235. Aug. 1958.
The penetration of light into wood.	Browne, F. L., & Simonson, H. C.	Forest Prod. J. 7(10): 308-314. Oct. 1957.

Painting Characteristics of Wood

Finishing exterior plywood.	Forest Products Laboratory	U.S. Forest Serv. Res. Note FPL-0133. 1966.
Properties of softwoods that affect the performance of exterior paints.	Miniutti, V. P.	Official Digest Vol. 35. No. 460. pp. 451-471. May 1963.
Effects of wood on durability of finishes.	Laughnan, D. F.	Forest Prod. J. 9(2): 19A-21A. Feb. 1959.
Exudation of pitch and oils in wood.	Browne, F. L., & Rietz, R. C.	FPL Rep. No. 1735. 1959. + 1965.
*Modification of wood and plywood to improve paintability.	Browne, F. L., & Laughnan, D. F.	Forest Prod. Res. Soc. J. 2(3): 3-24. Sept. 1952.

Composition of Paint

Swelling of paint films in water.		
*Part I--The absorption of water, swelling and solubility of free films of paint.	Browne, F. L.	Preprint of paper for 7th Annual Meeting of Forest Prod. Res. Soc., Memphis, Tenn., June 15-17, 1953.

*Not available at Forest Products Laboratory.

+Information reviewed and reaffirmed.

LIST OF PUBLICATIONS RELATING TO WOOD FINISHING SUBJECTS (continued)

Composition of Paint (continued)

Title	Author	Publication and date
*Part II--Absorption and volumetric swelling of bound and free films before and after weathering.	Browne, F. L.	J. of the Forest Prod. Res. Soc. 4(6): 391-400. Dec. 1954.
*Part III--Absorption and volumetric swelling of bound and free films from air of different relative humidities.	Browne, F. L.	Forest Prod. J. 5(1): 92-96. Feb. 1955.
*Part IV--Effect of thickness of film and pigment volume of paint.	Browne, F. L.	Forest Prod. J. 5(2): 142-146. Apr. 1955.
Part V--Effects of different pigments.	Browne, F. L.	Forest Prod. J. 5(3): 192-200. June 1955.
Part VI--Effects of different oil or oleoresinous vehicles.	Browne, F. L.	Forest Prod. J. 6(4): 152-159. Apr. 1956.
*Part VII--Latex vehicles.	Browne, F. L.	Forest Prod. J. 6(6): 235-240. June 1956. Out of print.
Part VIII--Swelling of linseed oil paints in water and organic liquids.	Browne, F. L.	Forest Prod. J. 6(8): 312-318. Aug. 1956.

*Not available at Forest Products Laboratory.

71-009

LIST OF PUBLICATIONS RELATING TO WOOD FINISHING SUBJECTS (continued)

Composition of Paint (continued)

Title	Author	Publication and date
Swelling of paint films in water.		
Part IX--Effects of temperature during soaking and film formation, and repeated soaking and drying.	Browne, F.L.	Forest Prod. J. 6(10): 453-458. Oct. 1956.
Part X--Rate of penetration of water, permeability to water vapor, and the penetrability to air in relation to water absorption.	Browne, F.L.	Forest Prod. J. 7(4): 145-154. Apr. 1957.
*Part XI--Mixed-pigment paints in linseed oil.	Browne, F.L.	Forest Prod. J. 7(7): 248-252. July 1957. Out of print.

Paint Failures

Blistering, peeling, and cracking of house paints from moisture.	Forest Products Laboratory	U.S. Forest Serv. Res. Note FPL-0125. 1970.
Thermal insulation from wood for buildings: Effects of moisture and its control.	Lewis, W.C.	U.S. Forest Serv. Res. Paper FPL 86. 1968.
Condensation in farm buildings.	Forest Products Laboratory	U.S. Forest Serv. Res. Note FPL-0114. 1966.
Cross-grain cracking of oil-base house paints.	Forest Products Laboratory	U.S. Forest Serv. Res. Note FPL-0129. 1966.
Discoloration of house paint by blue stain.	Forest Products Laboratory	U.S. Forest Serv. Res. Note FPL-0131. 1966.

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71-009

LIST OF PUBLICATIONS RELATING TO WOOD FINISHING SUBJECTS (continued)

Paint Failures (continued)

Title	Author	Publication and date
Discoloration of house paints by water-soluble extractives in western redcedar and redwood.	Forest Products Laboratory	U.S. Forest Serv. Res. Note FPL-0132. 1966.
Intercoat peeling of house paints.	Forest Products Laboratory	U.S. Forest Serv. Res. Note FPL-0127. 1966.
Mildew on house paints.	Forest Products Laboratory	U.S. Forest Serv. Res. Note FPL-0128. 1966.
Temperature blistering of house paints.	Forest Products Laboratory	U.S. Forest Serv. Res. Note FPL-0126. 1966.
Insulation and ventilation prevent condensation in barns.	Teesdale, L. V., and Dunlap, M. E.	FPL Rep. No. 1720. 1959. + 1965.
Understanding the mechanisms of deterioration of house paint.	Browne, F. L.	Forest Prod. J. 9(11): 417-427. Nov. 1959.
Remedial measures for building condensation difficulties.	Teesdale, L. V.	FPL Rep. No. 1710. 1947. + 1962.

Technique of Exposure Testing

An attempt to hasten test-fence studies of paint failure caused by too-frequent repainting.	Browne, F. L.	FPL Rep. No. 2203. 1960.
A new device for studying the blister resistance of house paints.	Browne, F. L., & Laughnan, D. F.	Forest Prod. J. 10(3): 141-145. Mar. 1960.

Coatings for Retarding Moisture Movement

Moisture content of wood as related to finishing of furniture.	Browne, F. L.	FPL Rep. No. 1722. 1947. + 1965.
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+Information reviewed and reaffirmed.

71-009

LIST OF PUBLICATIONS RELATING TO WOOD FINISHING SUBJECTS (continued)

Coatings for Retarding Moisture Movement (continued)

Title	Author	Publication and date
Coatings for minimizing changes in the moisture content of wood.		FPL Tech. Note No. 181. Rev. 1960.
Coatings that prevent end checks.		FPL Tech. Note No. 186. Rev. 1959.

Penetrating Stains or Natural Finishes for Exteriors of Houses

Forest Products Laboratory natural finish.	Forest Products Laboratory	U.S. Forest Serv. Res. Note FPL-046. 1970.
FPL natural finish for exterior wood in southern climates.	Forest Products Laboratory	70-013. 1970.
*Performance of exterior natural wood finishes in the Pacific Northwest.	Heebink, T.B.	Forest Prod. J. 20(2): 31-34. 1970.
Experimental chromate finish.	Black, John M.	U.S. Forest Serv. Res. Note FPL-0134. 1969.
*A low-cost exterior wood finish.	Barquest, G. D., & Black, J. M.	Agricultural Engineering 48(4): 219. Apr. 1967.
Water-repellent preservatives.	Forest Products Laboratory	U.S. Forest Serv. Res. Note FPL-0124. 1968.
Making log cabins endure.	Forest Products Laboratory	FPL Rep. No. 982. Rev. 1960.

Water Repellents and Water-Repellent Preservatives

Water-repellent preservatives.	Forest Products Laboratory	U.S. Forest Serv. Res. Note FPL-0124. 1968.
Water repellents improve performance of drop siding.	Anderson, L.O.	U.S. Forest Serv. Res. Paper FPL 4. 1963.

*Not available at Forest Products Laboratory.

LIST OF PUBLICATIONS RELATING TO WOOD FINISHING SUBJECTS (continued)

Water Repellents and Water-Repellent Preservatives (continued)

Measuring the effectiveness of	:	Miniutti, V.P.,	:	Forest Prod. J. 11(10):
water-repellent preservatives.	:	Mraz, E.A., &	:	453-462. Oct. 1961.
	:	Black, J.M.	:	

Painting Treated Wood

Surface characteristics of wood	:		:	U.S. Forest Serv. Res.
as they affect durability of	:		:	Paper FPL 57. 1966.
finishes. Pt. I--Surface	:	Tarkow, H.,	:	
stabilization.	:	Southerland, C.F.,	:	
	:	& Seborg, R.M.	:	

Interior Wood Finishing

Bleaching wood.	:	Forest Products	:	U.S. Forest Serv. Res.
	:	Laboratory	:	Note FPL-0165. 1967.
	:		:	
Some books and pamphlets on	:		:	SWP 63-050. Nov. 1963.
finishing of wood and furniture.	:		:	
	:		:	
Wood floors for dwellings.	:	Forest Products	:	USDA Agr. Hdbk. No. 204.
	:	Laboratory	:	Sept. 1961.

71-009

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